PATENT ABSTRACTS OF JAPAN

(11)Publication number:

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(51)Int.CI.

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(21)Application number: 03-088675

(71)Applicant: NIPPON TELEGR &

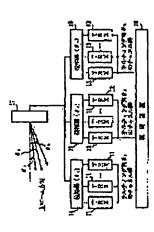
TELEPH CORP < NTT>

(22)Date of filing:

19.04.1991

(72)Inventor: FUJII TERUYA

(54) MOBILE COMMUNICATION CHANNEL SWITCHING CONTROL SYSTEM



(57) Abstract:

PURPOSE: To attain the switching to a channel having an optimum tilting angle at every mobile station in a mobile communication channel switching control system in which a tilting angle is controlled by channel switching in each radio zone.

CONSTITUTION: Plural channels accommodated in a base station are grouped and phase shifters 14, 15, 16 set respectively tilting angles 01, 02, 03 at every channel group. A control circuit 18 connected to each of transmitters-receivers 11, 12, 13 monitors reception levels of a mobile station or a base station or both during talking for each channel. A talking channel is switched to a channel group having a tilting angle in which a reception level versus interference wave level ratio of a same channel is maximized.

LEGAL STATUS

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(54) MOBILE COMMUNICATION CHANNEL SWITCHING CONTROL **SYSTEM**

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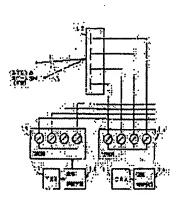
PURPOSE: To improve the frequency utilization efficiency by

(72)Inventor: FUJII TERUYA

(54) ANTENNA BEAM CONTROL SYSTEM

(57)Abstract:

monitoring the reception level of a base station or a mobile station or both the base station and the mobile station during talking so as to control a tilting angle in which the reception level versus interference wave level ratio of a same channel is maximized in response to the reception level. CONSTITUTION: A base station is provided with a beam tilting antenna 12 tilting electrically the in-vertical plane directivity in the direction of an elevating angle at every transmitter-receiver (TRX) 11 corresponding to each channel. Moreover, the system is provided with a phase shifter 13 and a phase control means 14 setting and controlling the tilting angle of the antenna 12 and the means 14 connected to the TRX 11 monitors a reception level and talking quality respectively. The position and the talking quality of a mobile station with respect to a base station are decided in response to the reception level and the talking quality to set a relevant tilting angle. Thus, the same channel interference is reduced and the frequency utilization efficiency is improved.



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Is the phase shifter impl Seccibed. Can it be positioned in the antenna rejection]
[Date of requesting appeal against examiner's decision of rejection]
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